WHAT IS CLAIMED IS:

1. A light weight golf ball comprising a core and cover covering the core, wherein

the cover has a flexural modulus (F) of 200 to 600 MPa,

the golf ball has a specific gravity of not less than 0.50 and less than 1.00, and a deformation amount (D) of 3.1 to 5.0 mm when applying from an initial load of 98 N to a final load of 1275 N \ and

a ratio (F/D) of the flexural modulus of the cover (F) to the deformation amount of the golf ball (D) is within the range of more than 50 and not more than 125.

- 2. The golf ball according to Claim 1, wherein the core has a deformation amount of 4.1 to 5.5 mm when applying from an initial load of 98 N to a final load of 1275 N.
- 3. The polf ball according to Claim 1, wherein the cover has a flexural modulus (F) of 300 to 500 MPa.
- 4. The golf ba λ l according to Claim 1\ wherein 20 the ratio (F/D) is within the range of 55 to 120.